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FIG. 1

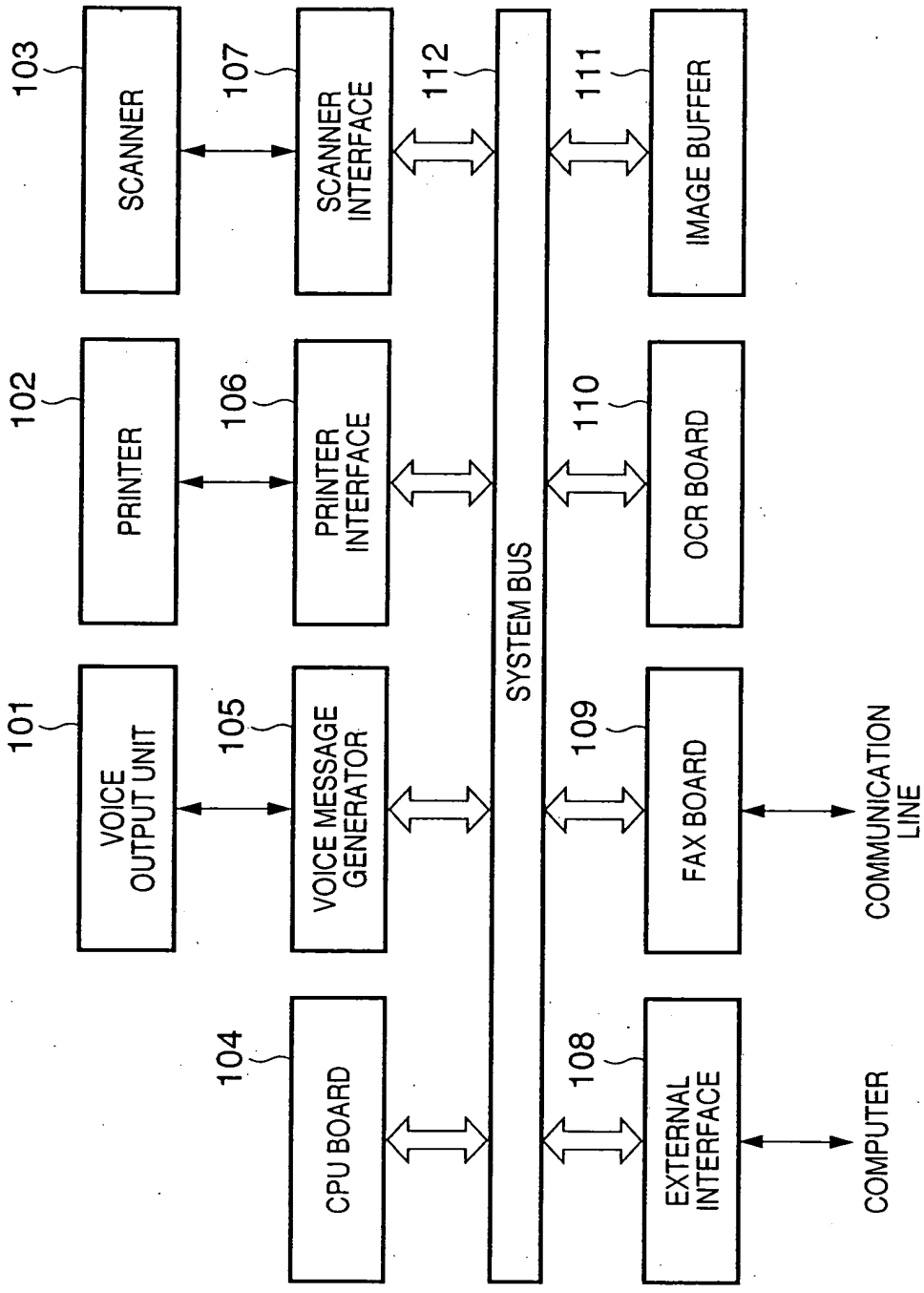

101
VOICE OUTPUT UNIT
102
PRINTER
103
SCANNER
104
CPU BOARD
105
VOICE MESSAGE GENERATOR
106
PRINTER INTERFACE
107
SCANNER INTERFACE
108
EXTERNAL INTERFACE
109
FAX BOARD
110
OCR BOARD
111
IMAGE BUFFER
112
SYSTEM BUS
COMMUNICATION LINE
COMPUTER

FIG. 2

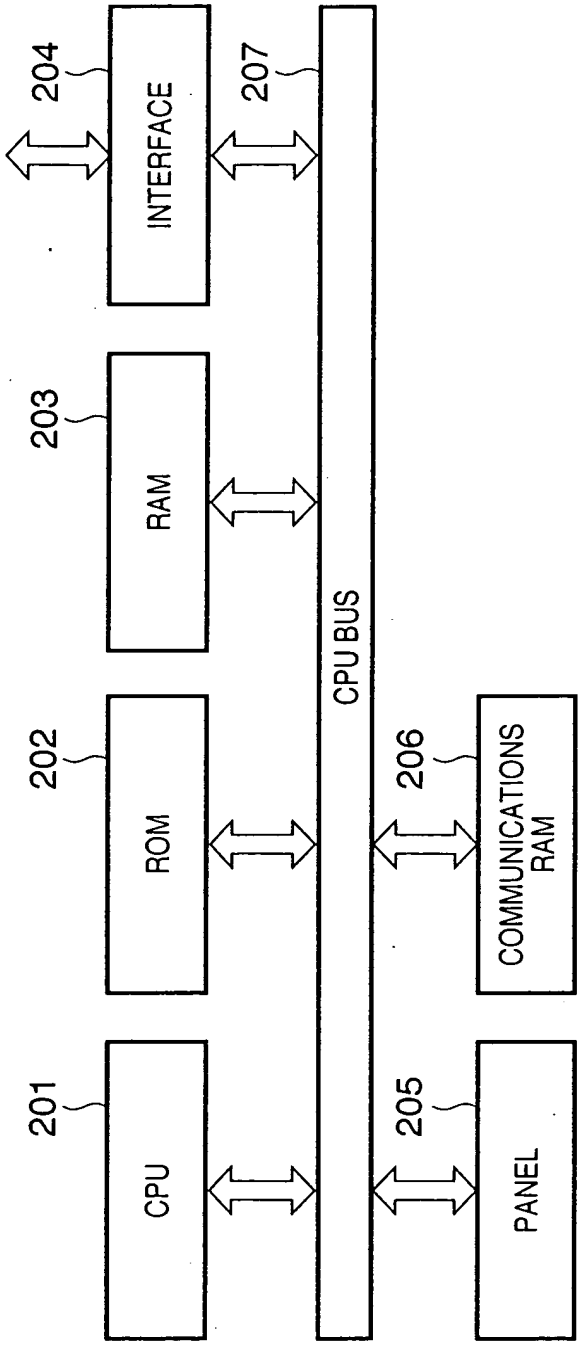

204
INTERFACE
207
203
RAM
CPU BUS
202
ROM
206
COMMUNICATIONS RAM
201
CPU
205
PANEL

FIG. 3

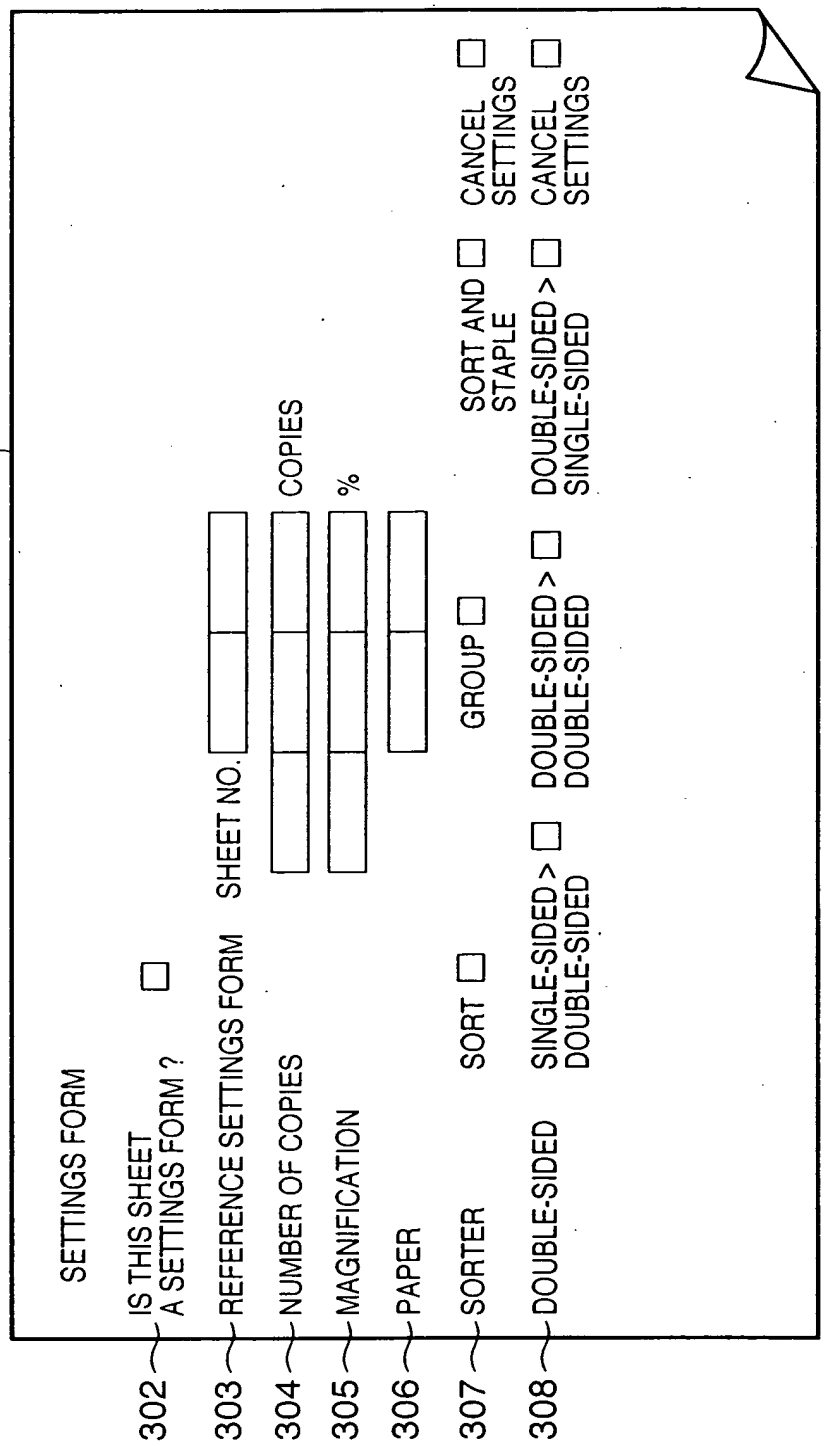

301
SETTINGS FORM
IS THIS SHEET A SETTINGS FORM ?
REFERENCE SETTINGS FORM
SHEET NO.
NUMBER OF COPIES
COPIES
MAGNIFICATION
%
PAPER
SORTER
SORT
GROUP
SORT AND STAPLE
CANCEL SETTINGS
DOUBLE-SIDED
SINGLE-SIDED > DOUBLE-SIDED
DOUBLE-SIDED > DOUBLE-SIDED
DOUBLE-SIDED > SINGLE-SIDED
CANCEL SETTINGS
302
303
304
305
306
307
308

FIG. 4

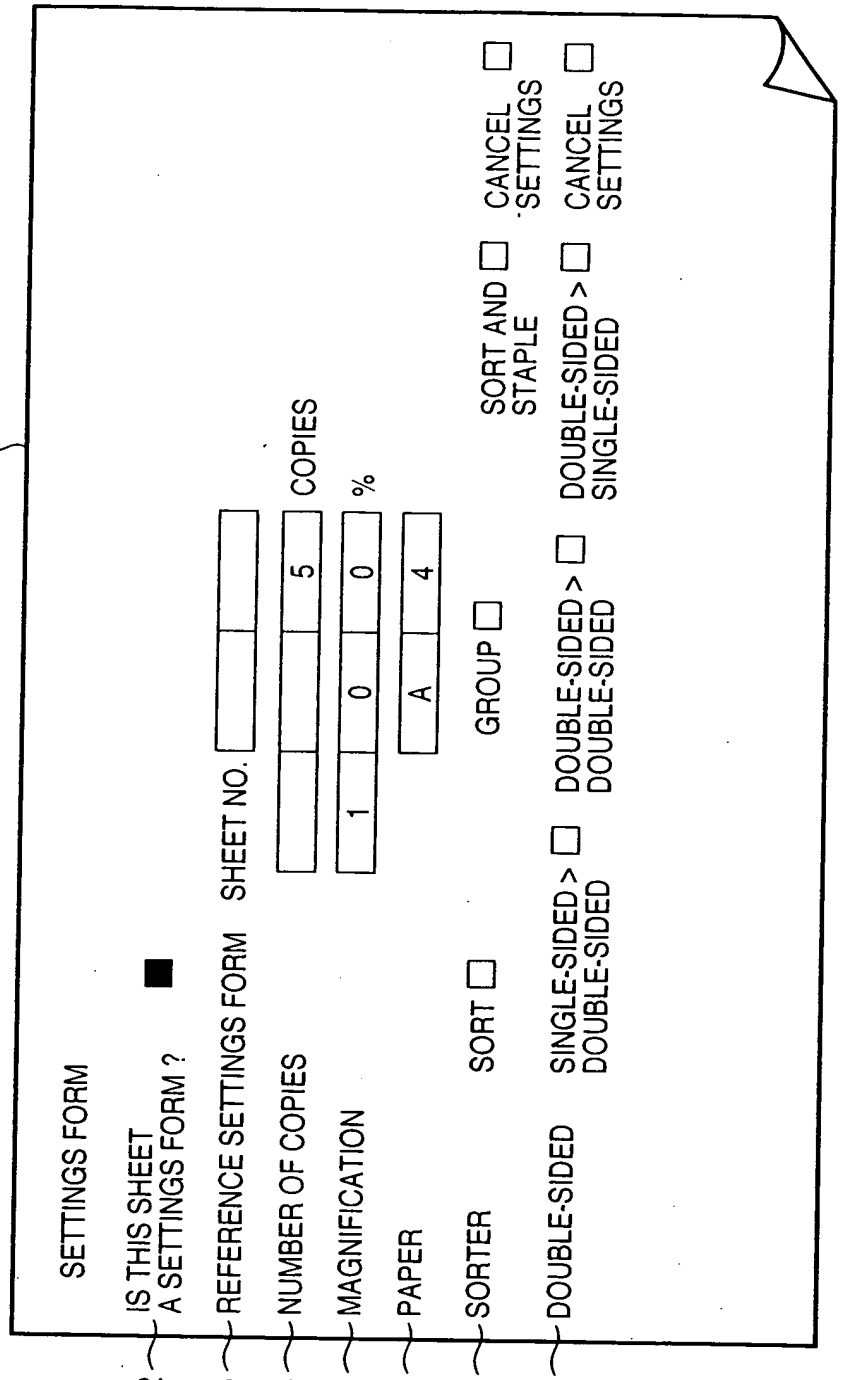

401
SETTINGS FORM
IS THIS SHEET A SETTINGS FORM ?
REFERENCE SETTINGS FORM
SHEET NO.
NUMBER OF COPIES
COPIES
MAGNIFICATION
%
PAPER
SORTER
SORT
GROUP
SORT AND STAPLE
CANCEL SETTINGS
DOUBLE-SIDED
SINGLE-SIDED > DOUBLE-SIDED
DOUBLE-SIDED > DOUBLE-SIDED
DOUBLE-SIDED > SINGLE-SIDED
CANCEL SETTINGS
402
403
404
405
406
407
408
1
0
0
5
A
4

FIG. 5

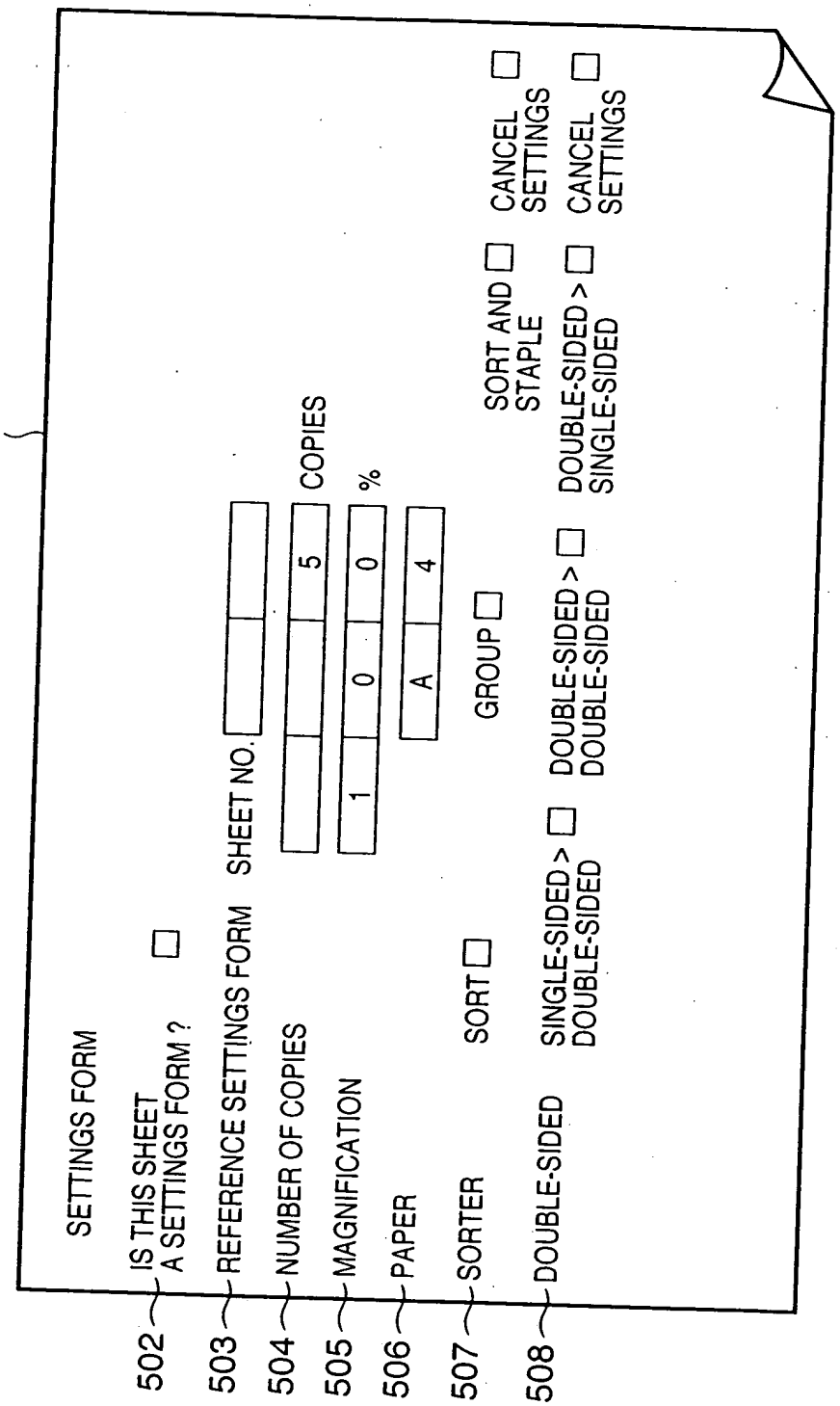

501
SETTINGS FORM
IS THIS SHEET A SETTINGS FORM ?
REFERENCE SETTINGS FORM
SHEET NO.
NUMBER OF COPIES
COPIES
MAGNIFICATION
%
PAPER
SORTER
SORT
GROUP
DOUBLE-SIDED
SINGLE-SIDED > DOUBLE-SIDED
DOUBLE-SIDED > DOUBLE-SIDED
SORT AND STAPLE
DOUBLE-SIDED > SINGLE-SIDED
CANCEL SETTINGS
CANCEL SETTINGS
502
503
504
505
506
507
508
1
0
0
5
A
4

FIG. 6

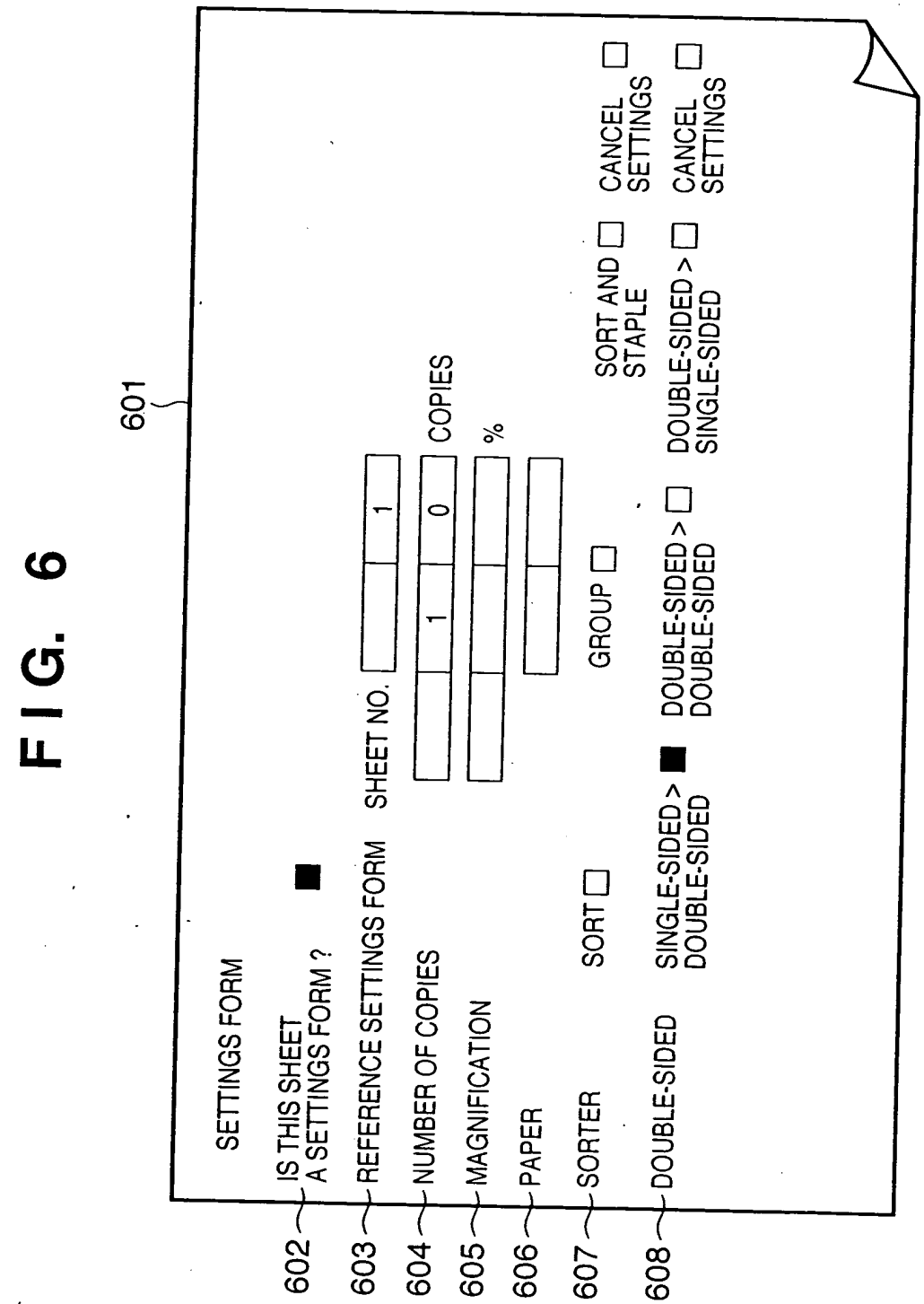

601
SETTINGS FORM
IS THIS SHEET A SETTINGS FORM ?
REFERENCE SETTINGS FORM
SHEET NO. 1
NUMBER OF COPIES
1
0
COPIES
MAGNIFICATION
%
PAPER
SORTER
SORT
GROUP
SORT AND STAPLE
CANCEL SETTINGS
DOUBLE-SIDED
SINGLE-SIDED > DOUBLE-SIDED
DOUBLE-SIDED > DOUBLE-SIDED
DOUBLE-SIDED > SINGLE-SIDED
CANCEL SETTINGS
602
603
604
605
606
607
608

FIG. 7

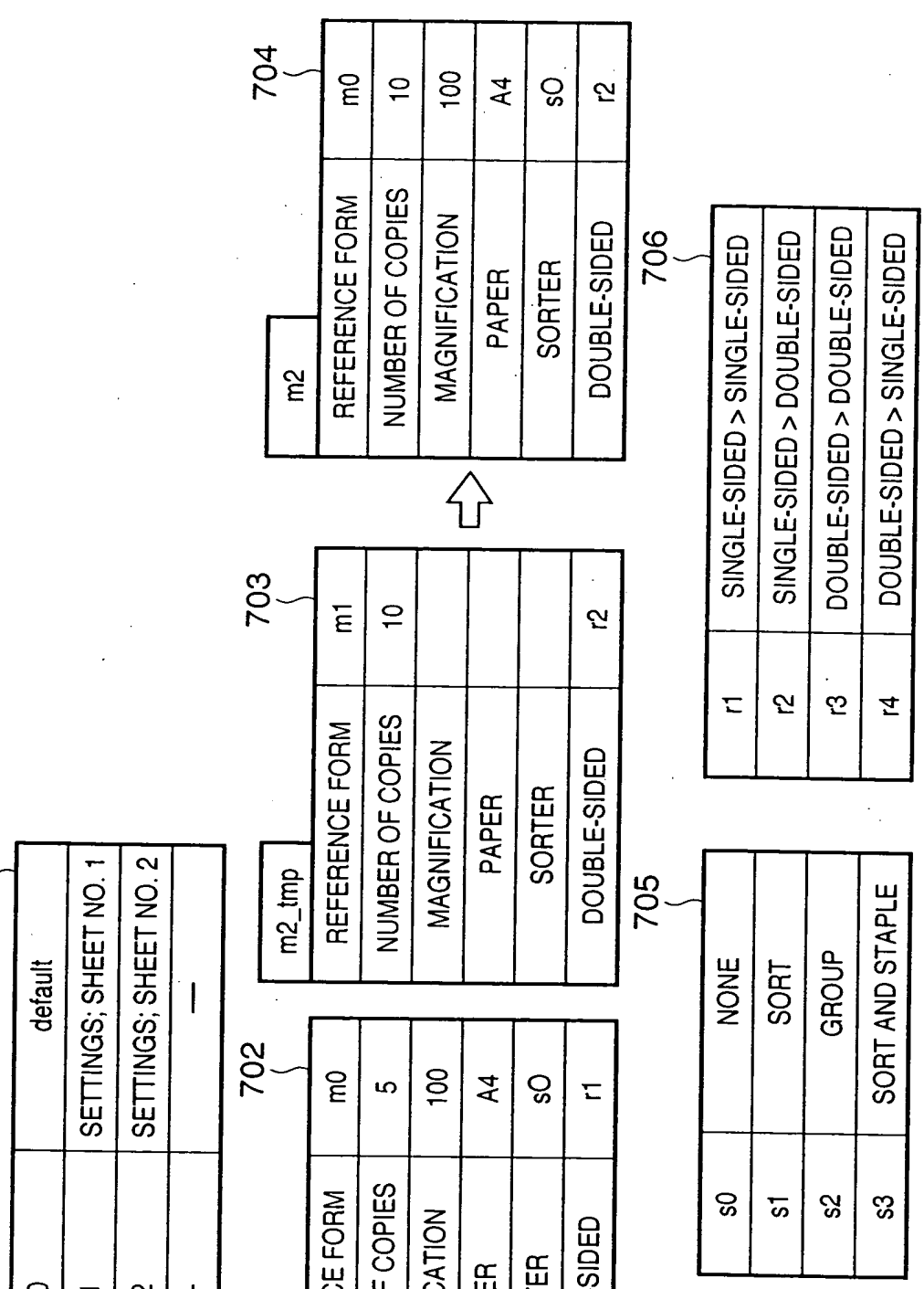

701
default
m0
m1
SETTINGS; SHEET NO. 1
m2
SETTINGS; SHEET NO. 2
—
—
702
m1
REFERENCE FORM
m0
NUMBER OF COPIES
5
MAGNIFICATION
100
PAPER
A4
SORTER
sO
DOUBLE-SIDED
r1
703
m2_tmp
REFERENCE FORM
m1
NUMBER OF COPIES
10
MAGNIFICATION
PAPER
SORTER
DOUBLE-SIDED
r2
704
m2
REFERENCE FORM
m0
NUMBER OF COPIES
10
MAGNIFICATION
100
PAPER
A4
SORTER
sO
DOUBLE-SIDED
r2
705
s0
NONE
s1
SORT
s2
GROUP
s3
SORT AND STAPLE
706
r1
SINGLE-SIDED > SINGLE-SIDED
r2
SINGLE-SIDED > DOUBLE-SIDED
r3
DOUBLE-SIDED > DOUBLE-SIDED
r4
DOUBLE-SIDED > SINGLE-SIDED

FIG. 8

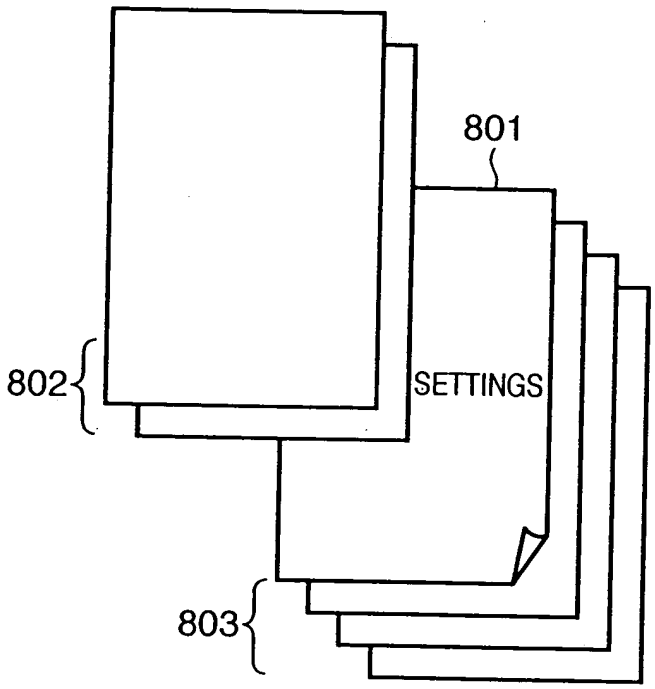


FIG. 9

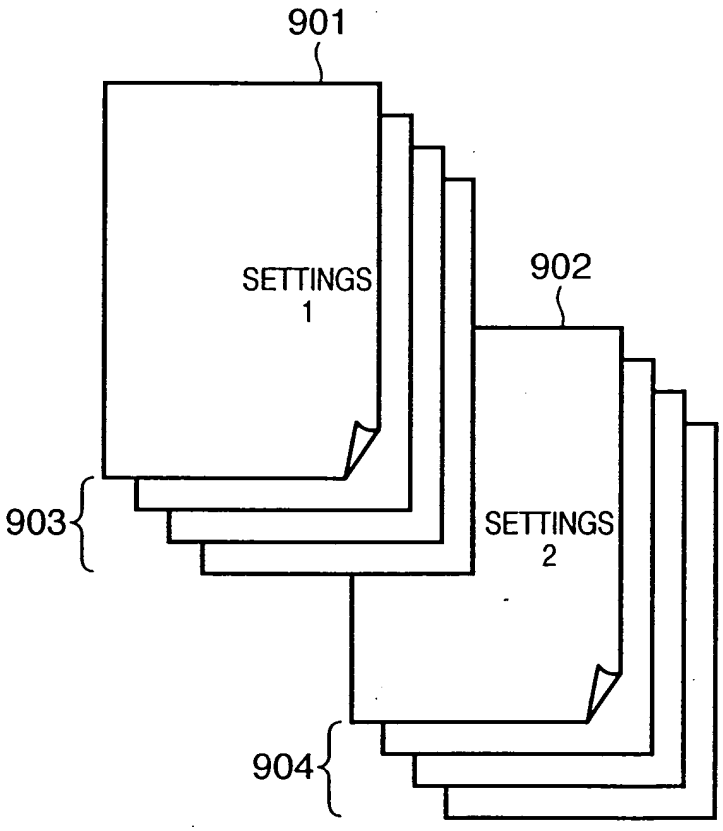


FIG. 10

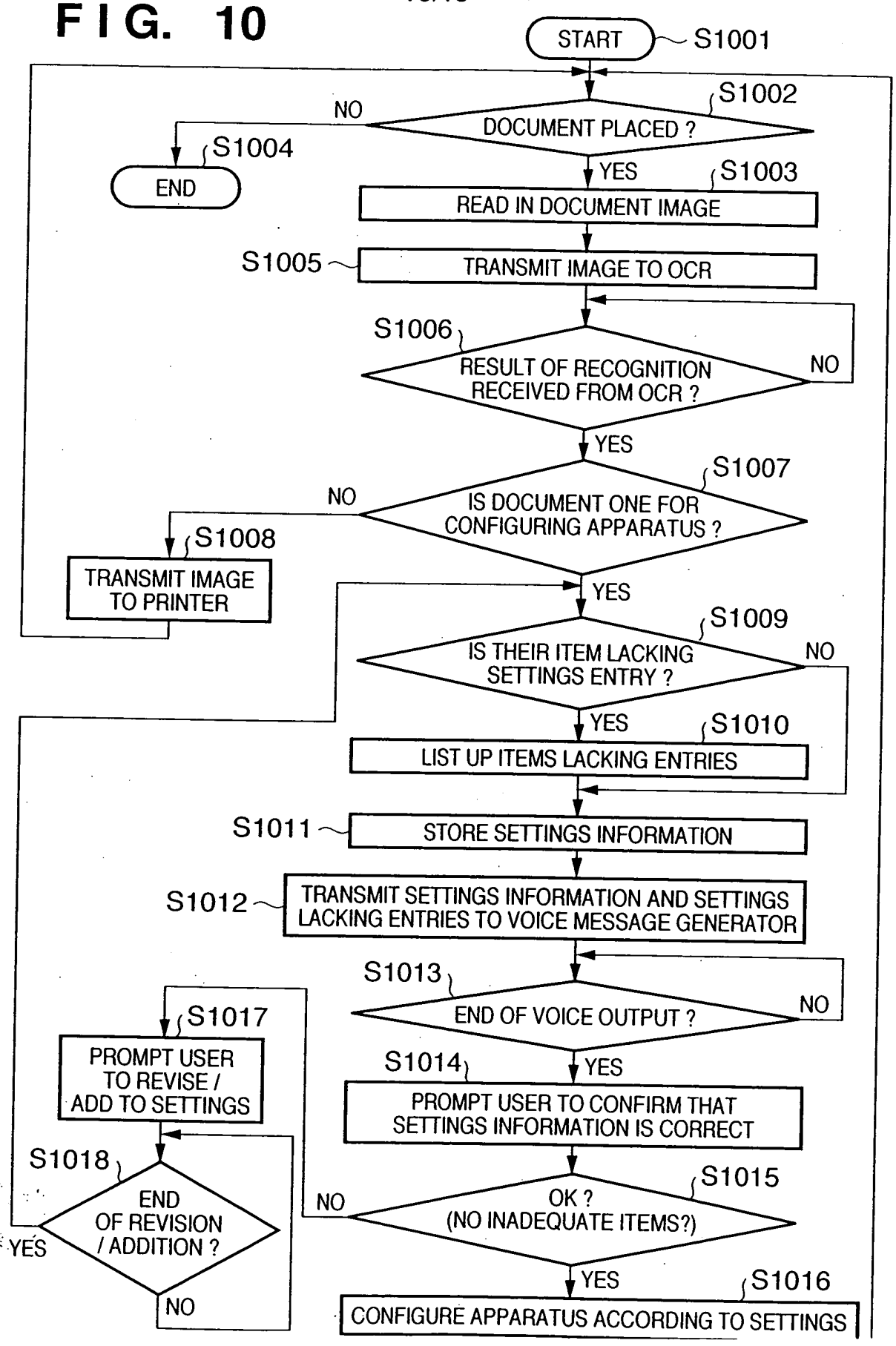

START
S1001
S1002
DOCUMENT PLACED ?
NO
S1004
END
YES
S1003
READ IN DOCUMENT IMAGE
S1005
TRANSMIT IMAGE TO OCR
S1006
RESULT OF RECOGNITION RECEIVED FROM OCR ?
NO
YES
S1007
IS DOCUMENT ONE FOR CONFIGURING APPARATUS ?
NO
S1008
TRANSMIT IMAGE TO PRINTER
YES
S1009
IS THEIR ITEM LACKING SETTINGS ENTRY ?
NO
YES
S1010
LIST UP ITEMS LACKING ENTRIES
S1011
STORE SETTINGS INFORMATION
S1012
TRANSMIT SETTINGS INFORMATION AND SETTINGS LACKING ENTRIES TO VOICE MESSAGE GENERATOR
S1013
END OF VOICE OUTPUT ?
NO
YES
S1014
PROMPT USER TO CONFIRM THAT SETTINGS INFORMATION IS CORRECT
S1015
OK ? (NO INADEQUATE ITEMS?)
NO
YES
S1016
CONFIGURE APPARATUS ACCORDING TO SETTINGS
S1017
PROMPT USER TO REVISE / ADD TO SETTINGS
S1018
END OF REVISION / ADDITION ?
YES
NO

FIG. 11

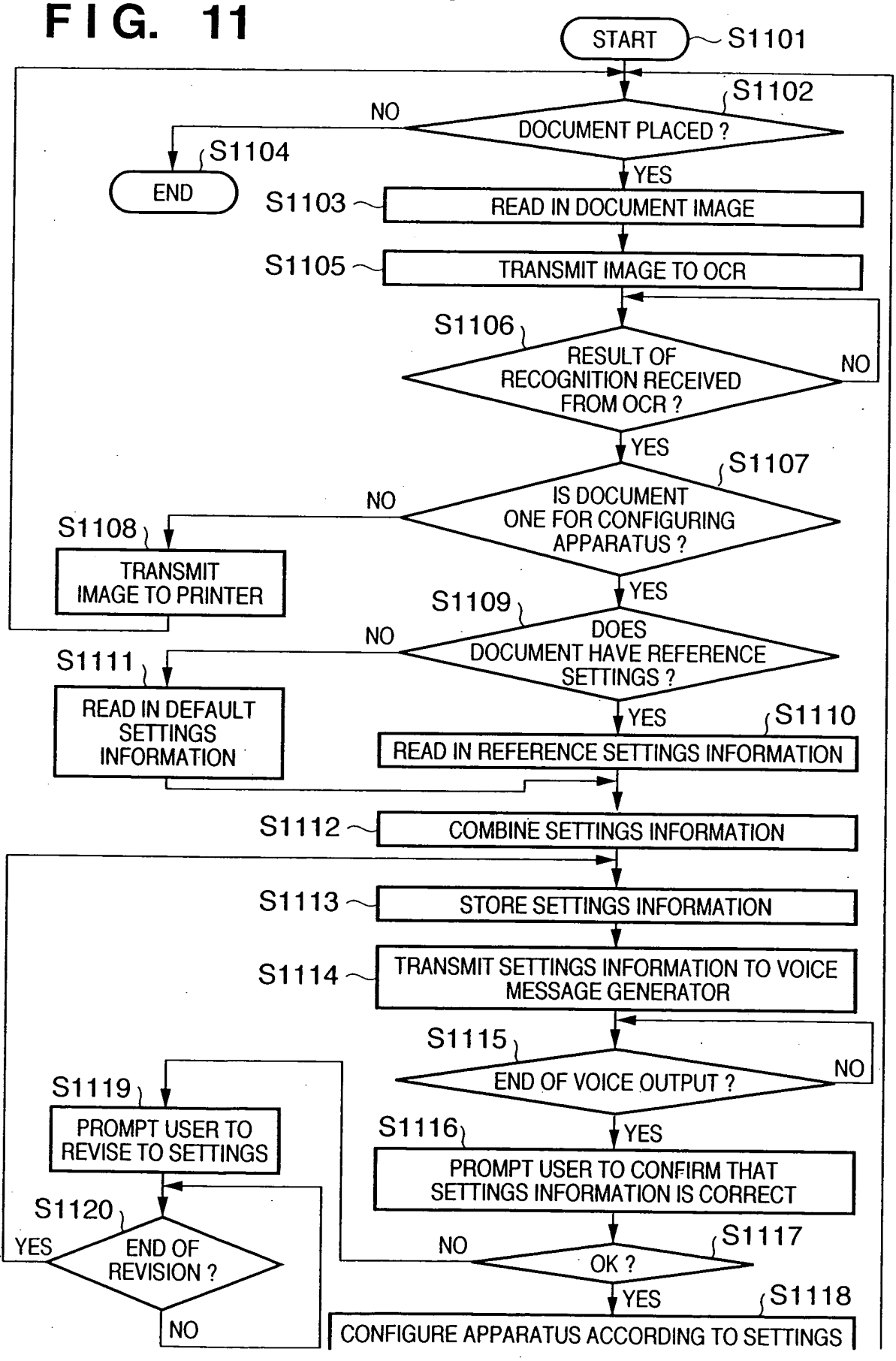

START
S1101
S1102
DOCUMENT PLACED ?
NO
YES
S1104
END
S1103
READ IN DOCUMENT IMAGE
S1105
TRANSMIT IMAGE TO OCR
S1106
RESULT OF RECOGNITION RECEIVED FROM OCR ?
NO
YES
S1107
IS DOCUMENT ONE FOR CONFIGURING APPARATUS ?
NO
YES
S1108
TRANSMIT IMAGE TO PRINTER
S1109
DOES DOCUMENT HAVE REFERENCE SETTINGS ?
NO
YES
S1111
READ IN DEFAULT SETTINGS INFORMATION
S1110
READ IN REFERENCE SETTINGS INFORMATION
S1112
COMBINE SETTINGS INFORMATION
S1113
STORE SETTINGS INFORMATION
S1114
TRANSMIT SETTINGS INFORMATION TO VOICE MESSAGE GENERATOR
S1115
END OF VOICE OUTPUT ?
NO
YES
S1116
PROMPT USER TO CONFIRM THAT SETTINGS INFORMATION IS CORRECT
S1117
OK ?
NO
YES
S1118
CONFIGURE APPARATUS ACCORDING TO SETTINGS
S1119
PROMPT USER TO REVISE TO SETTINGS
S1120
END OF REVISION ?
YES
NO

FIG. 12

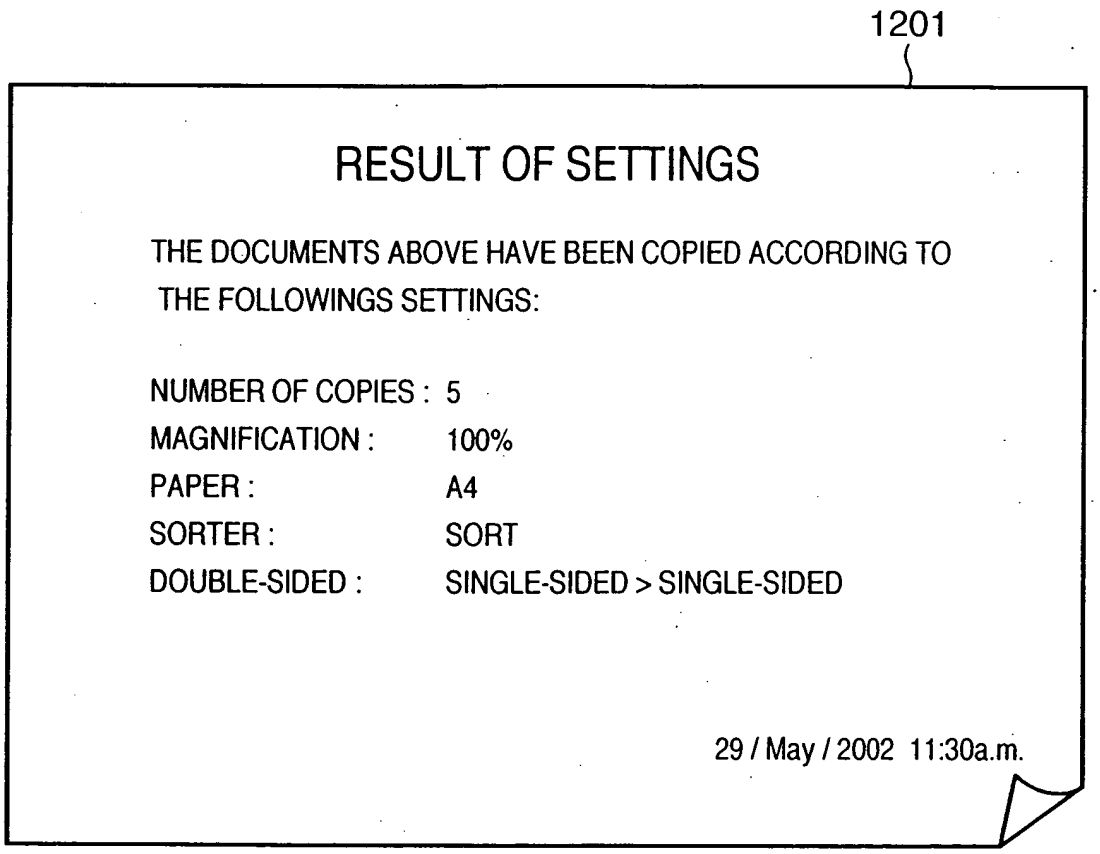

1201
RESULT OF SETTINGS
THE DOCUMENTS ABOVE HAVE BEEN COPIED ACCORDING TO THE FOLLOWINGS SETTINGS:
NUMBER OF COPIES : 5
MAGNIFICATION : 100%
PAPER : A4
SORTER : SORT
DOUBLE-SIDED : SINGLE-SIDED > SINGLE-SIDED
29 / May / 2002 11:30a.m.

FIG. 10

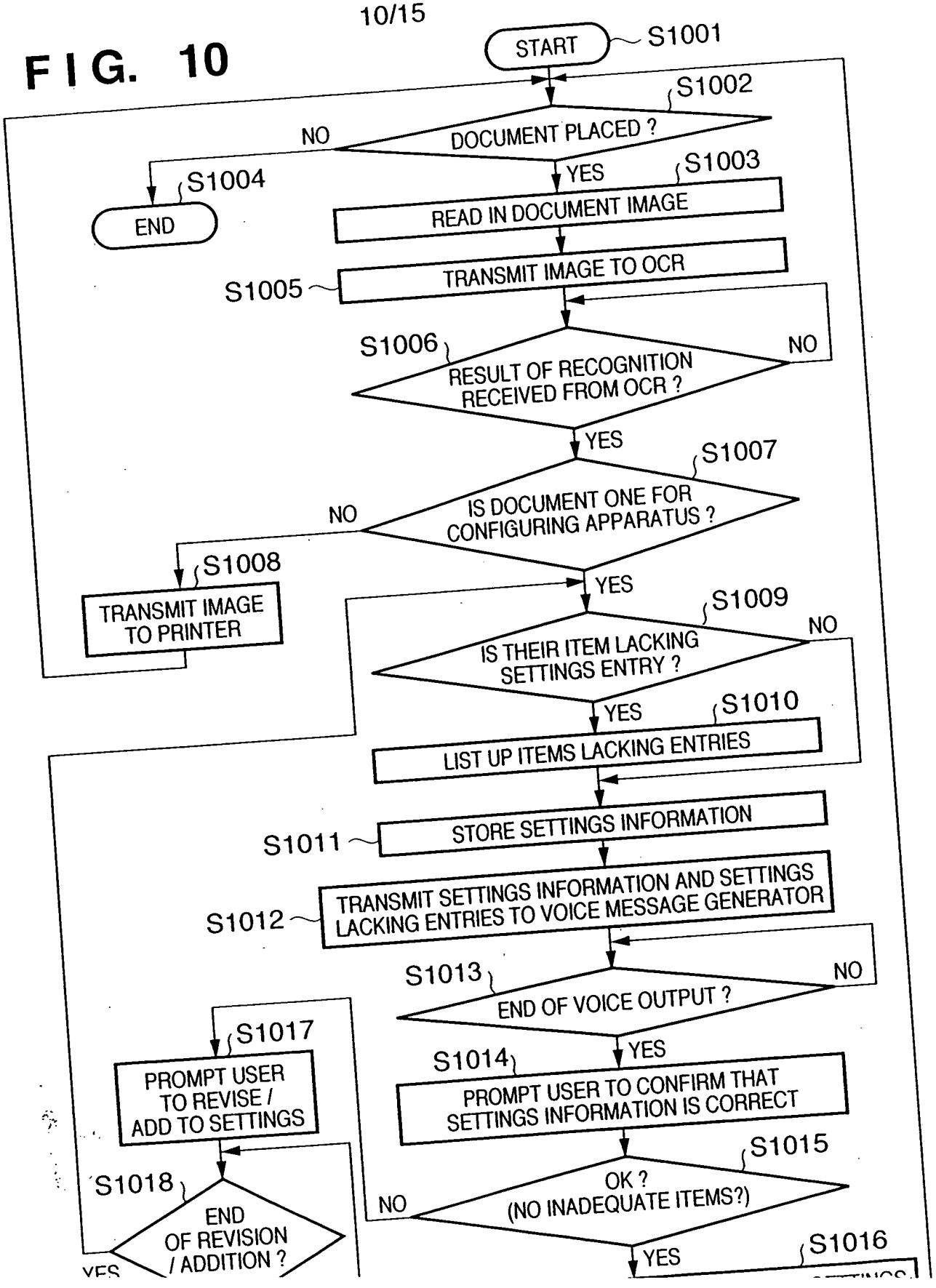
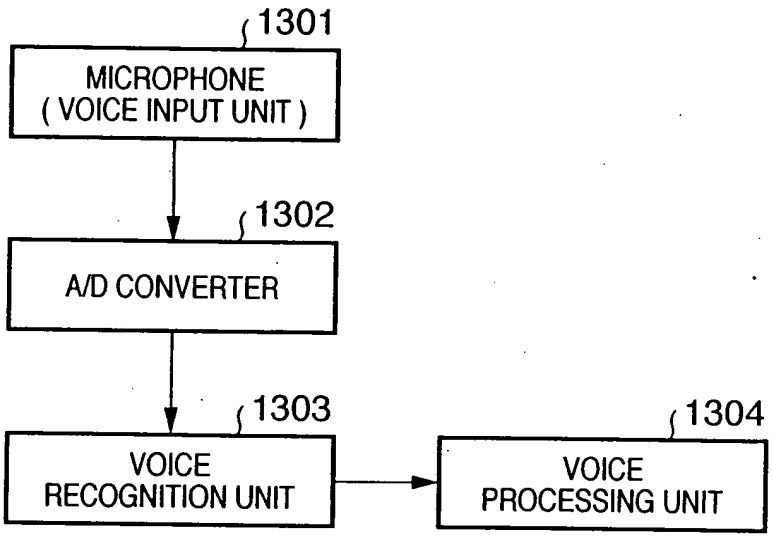

START
S1001
S1002
DOCUMENT PLACED ?
NO
YES
S1003
READ IN DOCUMENT IMAGE
S1004
END
S1005
TRANSMIT IMAGE TO OCR
S1006
RESULT OF RECOGNITION RECEIVED FROM OCR ?
NO
YES
S1007
IS DOCUMENT ONE FOR CONFIGURING APPARATUS ?
NO
YES
S1008
TRANSMIT IMAGE TO PRINTER
S1009
IS THEIR ITEM LACKING SETTINGS ENTRY ?
NO
YES
S1010
LIST UP ITEMS LACKING ENTRIES
S1011
STORE SETTINGS INFORMATION
S1012
TRANSMIT SETTINGS INFORMATION AND SETTINGS LACKING ENTRIES TO VOICE MESSAGE GENERATOR
S1013
END OF VOICE OUTPUT ?
NO
YES
S1014
PROMPT USER TO CONFIRM THAT SETTINGS INFORMATION IS CORRECT
S1015
OK ? (NO INADEQUATE ITEMS?)
NO
YES
S1016
S1017
PROMPT USER TO REVISE / ADD TO SETTINGS
S1018
END OF REVISION / ADDITION ?
YES

FIG. 13


1301
MICROPHONE
(VOICE INPUT UNIT)
1302
A/D CONVERTER
1303
VOICE
RECOGNITION UNIT
1304
VOICE
PROCESSING UNIT

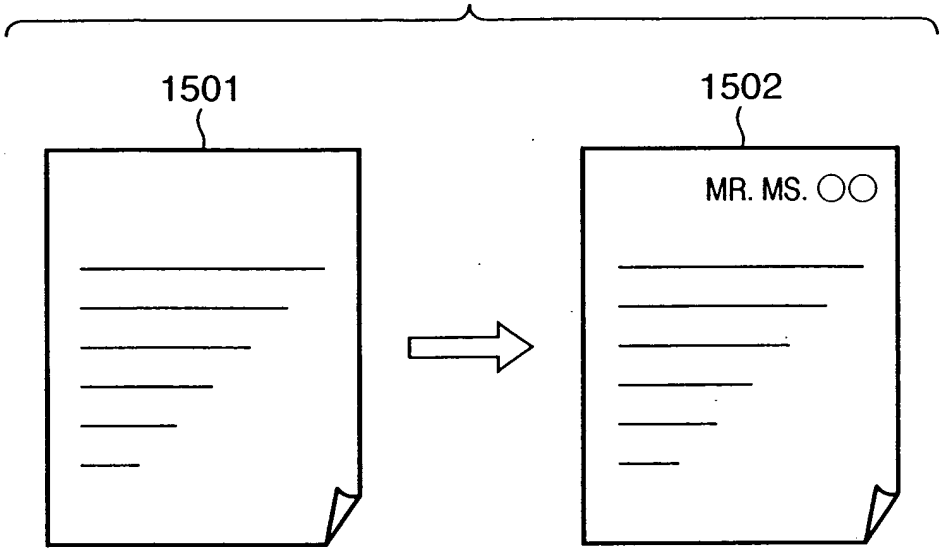



FIG. 15